

09/445,139

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9801	713/168 OR 713/176 OR 380/202 OR 380/203 OR 705/75 OR 283/13 OR 382/276 OR 382/277 OR 382/278 OR 382/279 OR 382/280 OR 382/281 OR 382/282 OR 382/283 OR 382/284 OR 382/299 OR 382/301 OR 382/303 OR 382/304 OR 383/305 OR 382/306 OR 382/307 OR 382/308	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:31
L2	0	1 AND WATERMARK\$3 AND SYNTHESISER AND ARTICULAT\$3 AND WMBWDD\$4 AND AUDIO AND DIGITAL	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:33
L3	0	1 AND WATERMARK\$3 AND ARTICULAT\$3 AND WMBWDD\$4 AND AUDIO AND DIGITAL	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:33
L4	2	1 AND WATERMARK\$3 AND ARTICULAT\$3 AND AUDIO AND DIGITAL	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:33
L5	647	1 AND WATERMARK\$3 AND AUDIO AND DIGITAL	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:33
L6	365	5 AND PARAMETER\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:35
L7	26	XU.INV. AND WU.INV. AND SUN. INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:36

09/445,139

L8	1	7 AND CHANGSHENG	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:36
L9	1	7 AND JIANKANG	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:36
L10	1	7 AND QIBIN	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 19:37


[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "(( watermark<in>metadata ) <and> ( digital<in>metadata ) <and> ( audio<in>metadata )<and> (digital<in>metadata))"

☒ e-mail

Your search matched 144 of 144 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

[» View Session History](#)[» New Search](#)

Modify Search

[» Key](#)

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

☐ Check to search only within this results setDisplay Format: ☒ Citation ☐ Citation & Abstract

Select Article Information

View: 1-25 | [26-5](#)

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | 1. <b>An audio watermarking algorithm based on significant component modulation</b><br>Yi-Lun Ho; Hsiao-Chuan Wang;<br>Consumer Electronics, 2003. ICCE. 2003 IEEE International Conference on<br>17-19 June 2003 Page(s):212 - 213<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(227 KB)</a> IEEE CNF  |
| <input type="checkbox"/> | 2. <b>Digital audio watermarking in the cepstrum domain</b><br>Sang-Kwang Lee; Yo-Sung Ho;<br>Consumer Electronics, IEEE Transactions on<br>Volume 46, Issue 3, Aug. 2000 Page(s):744 - 750<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(644 KB)</a> IEEE JNL  |
| <input type="checkbox"/> | 3. <b>Digital audio watermarking in the cepstrum domain</b><br>Sang-Kwang Lee; Yo-Sung Ho;<br>Consumer Electronics, 2000. ICCE. 2000 Digest of Technical Papers. International Conference on<br>13-15 June 2000 Page(s):334 - 335<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(192 KB)</a> IEEE CNF  |
| <input type="checkbox"/> | 4. <b>What can we reasonably expect from watermarks?</b><br>Craver, S.A.; Min Wu; Liu, B.;<br>Applications of Signal Processing to Audio and Acoustics, 2001 IEEE Workshop on the<br>21-24 Oct. 2001 Page(s):223 - 226<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(391 KB)</a> IEEE CNF   |
| <input type="checkbox"/> | 5. <b>Temporal watermarking invertible only through source separation</b><br>Berman, G.; Jouny, I.;<br>Acoustics, Speech, and Signal Processing, 2002. Proceedings. (ICASSP '02). IEEE International Conference on<br>Volume 4, 13-17 May 2002 Page(s):IV-3732 - IV-3735 vol.4<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(367 KB)</a> IEEE CNF |
| <input type="checkbox"/> | 6. <b>Audio quality measurement by using digital watermarking</b><br>Libin Cai; Pying Zhao;<br>Electrical and Computer Engineering, 2004. Canadian Conference on<br>Volume 2, 2-5 May 2004 Page(s):1159 - 1162 Vol.2<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(346 KB)</a> IEEE CNF   |

- ☐ **7. Attacks on digital watermarks: classification, estimation based attacks, and benchmarks**  
Voloshynovskiy, S.; Pereira, S.; Pun, T.; Eggers, J.J.; Su, J.K.;  
Communications Magazine, IEEE  
Volume 39, Issue 8, Aug. 2001 Page(s):118 - 126  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(2536 KB\)](#) IEEE JNL
- ☐ **8. Applying the psychoacoustic audio watermarking technique in Internet digital transmission**  
Tran Minh Triet; Duong Anh Due;  
Security Technology, 2004. 38th Annual 2004 International Carnahan Conference on  
11-14 Oct. 2004 Page(s):285 - 288  
[AbstractPlus](#) | Full Text: [PDF\(566 KB\)](#) IEEE CNF
- ☐ **9. Secure spread spectrum watermarking for images, audio and video**  
Cox, I.J.; Kilian, J.; Leighton, T.; Shamoon, T.;  
Image Processing, 1996. Proceedings., International Conference on  
Volume 3, 16-19 Sept. 1996 Page(s):243 - 246 vol.3  
[AbstractPlus](#) | Full Text: [PDF\(532 KB\)](#) IEEE CNF
- ☐ **10. Digital watermarks for audio signals**  
Boney, L.; Tewfik, A.H.; Hamdy, K.N.;  
Multimedia Computing and Systems, 1996., Proceedings of the Third IEEE International  
17-23 June 1996 Page(s):473 - 480  
[AbstractPlus](#) | Full Text: [PDF\(744 KB\)](#) IEEE CNF
- ☐ **11. Media-independent watermarking classification and the need for combining digital audio watermarking for media authentication**  
Dittmann, J.; Mukherjee, A.; Steinebach, M.;  
Information Technology: Coding and Computing, 2000. Proceedings. International Conference on  
27-29 March 2000 Page(s):62 - 67  
[AbstractPlus](#) | Full Text: [PDF\(60 KB\)](#) IEEE CNF
- ☐ **12. Implementation of a real-time audio watermark extractor on ARM940T**  
Mathew, M.; Yoonhark Oh; Jaeyoung Lee; Changhoon Yim; Kilsu Eo;  
Signals, Circuits and Systems, 2003. SCS 2003. International Symposium on  
Volume 2, 10-11 July 2003 Page(s):605 - 608 vol.2  
[AbstractPlus](#) | Full Text: [PDF\(347 KB\)](#) IEEE CNF
- ☐ **13. Audio watermarking using time-frequency compression expansion**  
Foo Say Wei; Ho Shuet Mun; Ng Ling Mei;  
Circuits and Systems, 2004. ISCAS '04. Proceedings of the 2004 International Symposium on  
Volume 3, 23-26 May 2004 Page(s):III - 201-4 Vol.3  
[AbstractPlus](#) | Full Text: [PDF\(228 KB\)](#) IEEE CNF
- ☐ **14. Time-spread echo method for digital audio watermarking**  
Byeong-Seob Ko; Nishimura, R.; Suzuki, Y.;  
Multimedia, IEEE Transactions on  
Volume 7, Issue 2, April 2005 Page(s):212 - 221  
[AbstractPlus](#) | Full Text: [PDF\(792 KB\)](#) IEEE JNL
- ☐ **15. Quantization index modulation: a class of provably good methods for digital watermark information embedding**  
Chen, B.; Wornell, G.W.;  
Information Theory, IEEE Transactions on  
Volume 47, Issue 4, May 2001 Page(s):1423 - 1443  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(392 KB\)](#) IEEE JNL

- ☐ **16. Digital watermarking: algorithms and applications**  
Podilchuk, C.I.; Delp, E.J.;  
Signal Processing Magazine, IEEE  
Volume 18, Issue 4, July 2001 Page(s):33 - 46  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1180 KB\)](#) IEEE JNL
  
- ☐ **17. Audio watermarking for copyright protection of digital audio data**  
Jong Won Seok; Jin Woo Hong;  
Electronics Letters  
Volume 37, Issue 1, 4 Jan. 2001 Page(s):60 - 61  
[AbstractPlus](#) | Full Text: [PDF\(188 KB\)](#) IEEE JNL
  
- ☐ **18. A new watermarking method of digital audio content for copyright protection**  
Ye Wang;  
Signal Processing Proceedings, 1998. ICSP '98. 1998 Fourth International Conference  
Volume 2, 12-16 Oct. 1998 Page(s):1420 - 1423 vol.2  
[AbstractPlus](#) | Full Text: [PDF\(272 KB\)](#) IEEE CNF
  
- ☐ **19. Techniques for Intellectual property protection of DSP designs**  
Hong, I.; Potkonjak, M.;  
Acoustics, Speech, and Signal Processing, 1998. ICASSP '98. Proceedings of the 199.  
International Conference on  
Volume 5, 12-15 May 1998 Page(s):3133 - 3136 vol.5  
[AbstractPlus](#) | Full Text: [PDF\(384 KB\)](#) IEEE CNF
  
- ☐ **20. Performance evaluation of digital audio watermarking algorithms**  
Gordy, J.D.; Bruton, L.T.;  
Circuits and Systems, 2000. Proceedings of the 43rd IEEE Midwest Symposium on  
Volume 1, 8-11 Aug. 2000 Page(s):456 - 459 vol.1  
[AbstractPlus](#) | Full Text: [PDF\(376 KB\)](#) IEEE CNF
  
- ☐ **21. Watermarking for musical pieces indexing used in automatic cue sheet generatic**  
Caccia, G.; Lancini, R.; Ludovico, M.; Mapelli, F.; Tubaro, S.;  
Multimedia Signal Processing, 2001 IEEE Fourth Workshop on  
3-5 Oct. 2001 Page(s):487 - 492  
[AbstractPlus](#) | Full Text: [PDF\(377 KB\)](#) IEEE CNF
  
- ☐ **22. 2002 14th International Conference on Digital Signal Processing Proceedings. D: No.02TH8628)**  
Digital Signal Processing, 2002. DSP 2002. 2002 14th International Conference on  
Volume 1, 1-3 July 2002  
[AbstractPlus](#) | Full Text: [PDF\(1386 KB\)](#) IEEE CNF
  
- ☐ **23. Audio digital watermarking based on hybrid spread spectrum**  
Muntean, T.; Grivel, E.; Najim, M.;  
Web Delivering of Music, 2002. WEDELMUSIC 2002. Proceedings. Second Internatio  
9-11 Dec. 2002 Page(s):150 - 155  
[AbstractPlus](#) | Full Text: [PDF\(316 KB\)](#) IEEE CNF
  
- ☐ **24. Blind cepstrum domain audio watermarking based on time energy features**  
Ching-Tang Hsieh; Pei-Ying Sou;  
Digital Signal Processing, 2002. DSP 2002. 2002 14th International Conference on  
Volume 2, 1-3 July 2002 Page(s):705 - 708 vol.2  
[AbstractPlus](#) | Full Text: [PDF\(320 KB\)](#) IEEE CNF

- ☐ **25. Embedding Indexing Information in audio signal using watermarking technique**  
Lancini, R.; Mapelli, F.; Tubaro, S.;  
Video/Image Processing and Multimedia Communications 4th EURASIP-IEEE Region  
Symposium on VIPromCom  
16-19 June 2002 Page(s):257 - 261  
[AbstractPlus](#) | Full Text: [PDF\(446 KB\)](#) IEEE CNF

View: [1-25](#) | [26-5](#)

Indexed by  
**Inspec**

[Help](#) [Contact Us](#) [Privacy &](#)

© Copyright 2005 IEEE ...



US Patent &amp; Trademark Office

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
Search: ☒ The ACM Digital Library ☐ The Guide

WATERMARK AND AUDIO



THE ACM DIGITAL LIBRARY


[Feedback](#) [Report a problem](#) [Satisfaction survey](#)
Terms used **WATERMARK AND AUDIO**

Found 13 of 153,034

Sort results  
by

relevance












[Save results to a Binder](#)Try an [Advanced Search](#)Try this search in [The ACM Guide](#)Display  
results

condensed form


[Search Tips](#)☐ Open results in a new  
window

Results 1 - 13 of 13


Relevance scale ☐ ☐ ☐ ☐ ☐

- 1 [Multimedia issues in digital libraries: A quantified fidelity criterion for parameter-embedded watermarking of audio archives](#)   
A. R. Gurijala, J. R. Deller  
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**  
Full text available:  [pdf\(203.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- 2 [Robust digital watermarking: An audio watermarking scheme robust against stereo attacks](#)   
David Megías, J. Herrera-Joancomartí, Julià Minguillón  
September 2004 **Proceedings of the 2004 multimedia and security workshop on Multimedia and security**  
Full text available:  [pdf\(191.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- 3 [Technical session 3: audio processing: Real-time background music monitoring based on content-based retrieval](#)   
Yoshiharu Suga, Naoko Kosugi, Masashi Morimoto  
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**  
Full text available:  [pdf\(3.16 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- 4 [Biometrics, watermarking, IKE: Component-based digital watermarking of Chinese texts](#)   
Xingming Sun, Gang Luo, Huajun Huang  
November 2004 **Proceedings of the 3rd international conference on Information security**  
Full text available:  [pdf\(427.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- 5 [Posters and Short Papers: Digital audio watermarking based-on multiple-bit hopping and human auditory system](#)   
Changsheng Xu, Yongwei Zhu, David Dagan Feng  
October 2001 **Proceedings of the ninth ACM international conference on Multimedia**  
Full text available:  [pdf\(613.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- 6 [Fingerprinting intellectual property using constraint-addition](#)   
Gang Qu, Miodrag Potkonjak  
June 2000 **Proceedings of the 37th conference on Design automation**


Full text available:  pdf(123.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



- 7 [Robust FPGA intellectual property protection through multiple small watermarks](#)   
 John Lach, William H. Mangione-Smith, Miodrag Potkonjak  
 June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation**


Full text available:  pdf(119.08 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 8 [Analysis of watermarking techniques for graph coloring problem](#)   
 Gang Qu, Miodrag Potkonjak  
 November 1998 **Proceedings of the 1998 IEEE/ACM international conference on Computer-aided design**


Full text available:  pdf(465.55 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 9 [Watermarking techniques for intellectual property protection](#)   
 A. B. Kahng, J. Lach, W. H. Mangione-Smith, S. Mantik, I. L. Markov, M. Potkonjak, P. Tucker, H. Wang, G. Wolfe  
 May 1998 **Proceedings of the 35th annual conference on Design automation - Volume 00**


Full text available:  pdf(243.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
 [Publisher Site](#)

- 10 [Robust digital watermarking: The digital watermarking container: secure and efficient embedding](#)   
 Martin Steinebach, Sascha Zmudzinski, Fan Chen  
 September 2004 **Proceedings of the 2004 multimedia and security workshop on Multimedia and security**


Full text available:  pdf(357.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

- 11 [Authentication I: Reversible watermarking of 2D-vector data](#)   
 Michael Voigt, Bian Yang, Christoph Busch  
 September 2004 **Proceedings of the 2004 multimedia and security workshop on Multimedia and security**

Full text available:  pdf(318.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

- 12 [Multimedia copyright enforcement on the Internet \(panel session\)](#)   
 James M. Burger, Christopher J. Cookson, Darko Kirovski, David P. Maher, Miodrag Potkonjak, Jeremy Welt  
 October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available:  pdf(175.77 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

- 13 [Watermarking algorithms: Wavelet-based blind watermarking of 3D models](#)   
 F. Ucheddu, M. Corsini, M. Barni  
 September 2004 **Proceedings of the 2004 multimedia and security workshop on Multimedia and security**

Full text available:  pdf(462.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Results 1 - 13 of 13

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.  
[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)